

**INSTRUCTION  
MANUAL**

**BALL-JOINT  
DAY AND NIGHT COLOR CAMERA**

**MODEL HDC100**



**CLOVER**  
Electronics USA

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## PRECAUTIONS

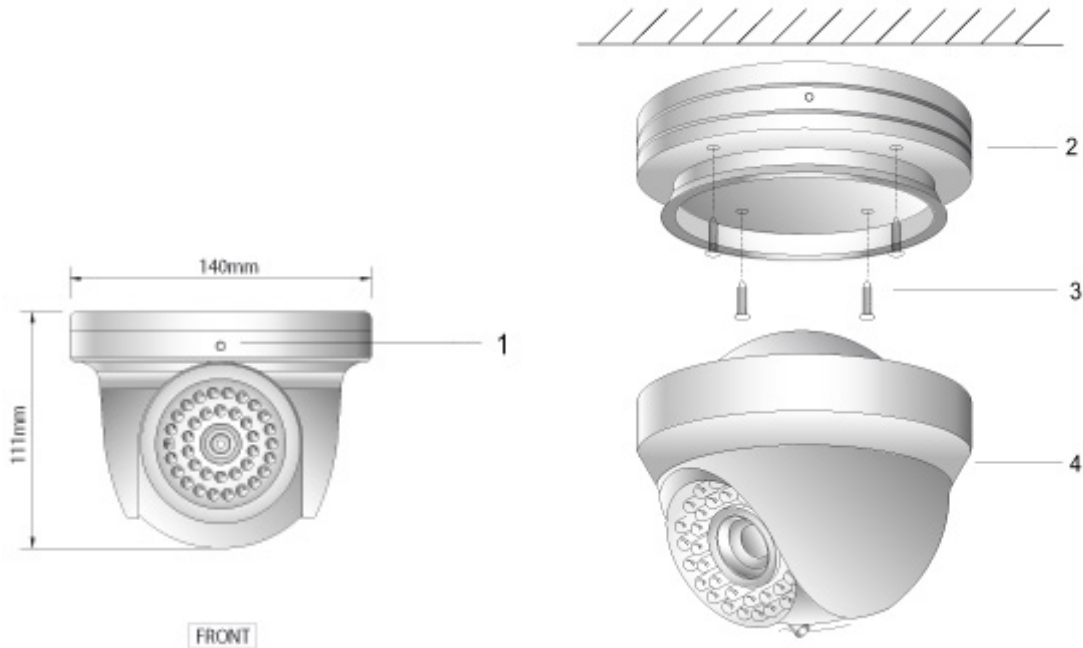
- To avoid electrical shock, do not open the case of this product.
- Operate this product using only the supplied AC Power supply.
- Do not overload electrical outlets or extension cords; this can result in fire or electric shock.
- Keep this product away from strong magnetic fields.
- Do not expose this product in direct sunlight or strong reflected rays.
- Refer servicing to qualified personnel only.
- Do not change or modify this product, the warranty will be voided.

## FEATURES

- Weatherproof (IP67)
- 1/3" Sony Super HAD CCD
- 520 TV Lines of Resolution
- Rugged Steel Construction
- Total 38 Infrared LEDs with a CDS sensor
- 60' IR range (depends on scene reflection)
- Attached Mounting Base (for ceiling & wall) and 100' cable
- DC12V Power Source

## INSTALLATION

1. Loosen the two locking screws① with provided hex-head wrench and remove the mounting base..
2. Attach the mounting base② to the wall or ceiling, wherever you want to install the camera. Locate a wall stud or ceiling joist and secure the mounting base using the supplied screws③. Attach the camera④ to the mounting base ② and secure them turning the two locking screws① with provided hex-head wrench clockwise.
3. How to set angle of view:  
Loosen the two locking screws① with provided hex-head wrench and set the desired angle of camera toward objects by moving the camera right /left and up/down.
4. Connect the one end of 100' cable (supplied) to the Din jack of 5' cable attached to the camera. Make sure that two arrows on the top of them should be aimed at each other. Connect the other end (BNC or RCA) of cable to the video devices such as DVR, monitor/TV. Plug the provided AC adapter to the DC jack (red) of the end of 100' cable.



**Note:**

- Apply the provided AC adapter only.
- The total length of cable must not exceed 200' including extension cable.

**TROUBLE SHOOTING**

If the camera does not function properly, check the following points before contacting the service center.

Troubles	Remedies
No video	Check the AC adapter and video cable between the camera and a monitor
The image on the screen is dark	Check the brightness control on the monitor
The image on the screen is dim	Check if the lens is stained. If dirty, clean it with soft and clean cloth
The camera is not working properly, and the surface of the camera case is hot	Check if you have connected the provided AC adapter
The contrast on the screen is too weak	Adjust the contrast feature of the monitor. If the camera is exposed under

	too strong light, change the position
The image on the screen flickers	Does the camera face to directly to the sunlight or fluorescent light? Change the camera position
Picture rolls and jumps, scrambled picture	Improper V-hold control. Setting on your monitor
Picture smaller than screen	House current may be too low

## SPECIFICATIONS

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|--|---|
| <ul style="list-style-type: none"> <li>• Image sensor</li> <li>• Scanning system</li> <li>• Horizontal resolution</li> <li>• Shutter speed</li> <li>• Sync. System</li> <li>• S/N ratio</li> <li>• Minimum illumination</li> <li>• Video output</li> <li>• AGC</li> <li>• White balance</li> <li>• Lens</li> <li>• Current consumption</li> <li>• Power supply</li> <li>• Operating temperature</li> <li>• Dimensions</li> <li>• Weight</li> </ul> | <p>1/3" Sony Super HAD CCD, 768H x 494V</p> <p>525 lines, 2:1 interlace</p> <p>520 TV lines</p> <p>Auto, Manual (1/60 to 1/100,000 sec)</p> <p>Internal</p> <p>more than 46db (AGC off)</p> <p>0.1 Lux with LEDs- Off</p> <p>Composite 1.0Vp-p @75 Ω</p> <p>Auto</p> <p>Auto</p> <p>6mm fixed lens</p> <p>450mA Max</p> <p>DC 15V, 1.5A</p> <p>-10°C to 50°C</p> <p>140 (W) x 111 (H) x 140 (D) mm</p> <p>2.8 Lbs</p> |
|--|---|

## LIMITED 2 YEAR WARRANTY

This warranty gives the original purchaser specific legal rights and you may also have other rights, which vary from state to state. If our products do not function because of any defect in material or workmanship, we will repair free of charges for 2 years on parts and labor from the date of original purchase. This warranty does not cover modification, abuse, incidental or consequential damages unless the state of owner's residence specially prohibits limitations on incidental or consequential damages.

## HOW TO OBTAIN FACTORY SERVICE

1. Original purchaser must fill out a warranty card and mail it to the factory with model number, serial number and the date of purchase.

2. We will repair or replace, and return to the owner the system under this limited warranty.
3. Please pack the system carefully and securely using the original packing materials, and send it prepaid and insured to: 13073 E. 166<sup>th</sup> St, Cerritos, CA 90703.
4. Please include a check for \$25.00 to cover the cost of return postage and handling. If the system is returned within the warranty period, please include a proof of purchase. If the system is out of warranty, you will receive an estimate of the repair cost for your approval before repair work will be begun.

## **AVAILABLE ACCESSORIES**

CDR4010	Stand-alone 4 CH Digital Video Recorder (DVR).
CDR4170	Stand-alone 4 CH Digital Video Recorder (DVR).
CDR1610	Stand-alone 16 CH Digital Video Recorder (DVR).
CDR0850	Stand-alone 8 CH Digital Video Recorder (DVR).
CA100H	100' 6pin Din Extension cable.

## **PACKAGE INCLUDES**

- 1-Ball-Joint Day & Night Color Camera
- 1-100' 6pin Din Cable
- 1-UL Approved AC Adapter
- 1-BNC to RCA Adapter
- 1-Hardware Accessories Kit
- 1-Instruction Manual
- 1-Warranty Registration Card